

Claims:

1. An ink-jet recording material which comprises a light transmitting support, at least one ink-receptive layer provided on one surface of the support and at least one back-coating layer provided on the opposite surface of the support, wherein at least one of the back-coating layers contains inorganic fine particles having an average particle size of a primary particle of 5 to 50 nm and a binder, and a void ratio of the layer is 70% by volume or less.
2. The ink-jet recording material according to Claim 1, wherein the ink-receptive layer contains inorganic fine particles having an average particle size of a primary particle of 5 to 30 nm and a hydrophilic binder.
3. The ink-jet recording material according to Claim 1, wherein the ink-receptive layer contains at least one of an inorganic pigment and an organic pigment having an average particle size of 0.5 to 10 μm .
4. The ink-jet recording material according to Claim 1, wherein the ink-receptive layer comprises two or more layers, and an ink-receptive layer (A) near to the light transmitting support contains fumed silica having an average particle size of a primary particle of 10 to 30 nm and a hydrophilic binder and an ink-receptive layer (B) far from the light transmitting support contains alumina or alumina hydrate having an average particle size of a primary particle of 5 to 30 nm and a hydrophilic binder.
5. The ink-jet recording material according to Claim 4, wherein the ink-receptive layer (B) contains at least one of an inorganic pigment and an organic pigment having an average particle size of 0.5 to 10 μm in an amount of 0.01 to 1 g/m².

6. The ink-jet recording material according to Claim 4, wherein a ratio (C) of the hydrophilic binder to the fumed silica of the ink-receptive layer (A) is 5 to 20% by weight and a ratio (D) of the hydrophilic binder to the alumina or alumina hydrate of the ink-receptive layer (B) is 6 to 22% by weight and (C) is smaller than (D).

7. The ink-jet recording material according to Claim 1, wherein the inorganic fine particles in the back coating layer are wet process silica having 5 or more silanol groups per square nm.

8. The ink-jet recording material according to Claim 7, wherein the wet process silica in the back coating layer is colloidal silica.

9. The ink-jet recording material according to Claim 1, wherein the binder in the back coating layer is polyvinyl alcohol or a modified product thereof.

10. The ink-jet recording material according to Claim 1, wherein a solid content of the back coating layer is 1 to 10 g/m².

11. The ink-jet recording material according to Claim 1, wherein the light transmitting support is a polyester film.

20073213-021302